

Redrawing a Remote Sawing Assembly

July 2021

Robert Ryan Winn





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Problem:

• Older raster type drawings are harder to read and not as precise for current use.

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• At the time of their development, some drawings were rushed and needed to be cleaned up and organized better.

Solution:

Modifications were needed to better organize the information on the drawings. By doing this, it would save both time and effort in reading and understanding the information provided.

The Plan:

Redraw all parts using new 3D modeling software. This keeps all parts and assemblies organized and helps ensure proper component fit-up.

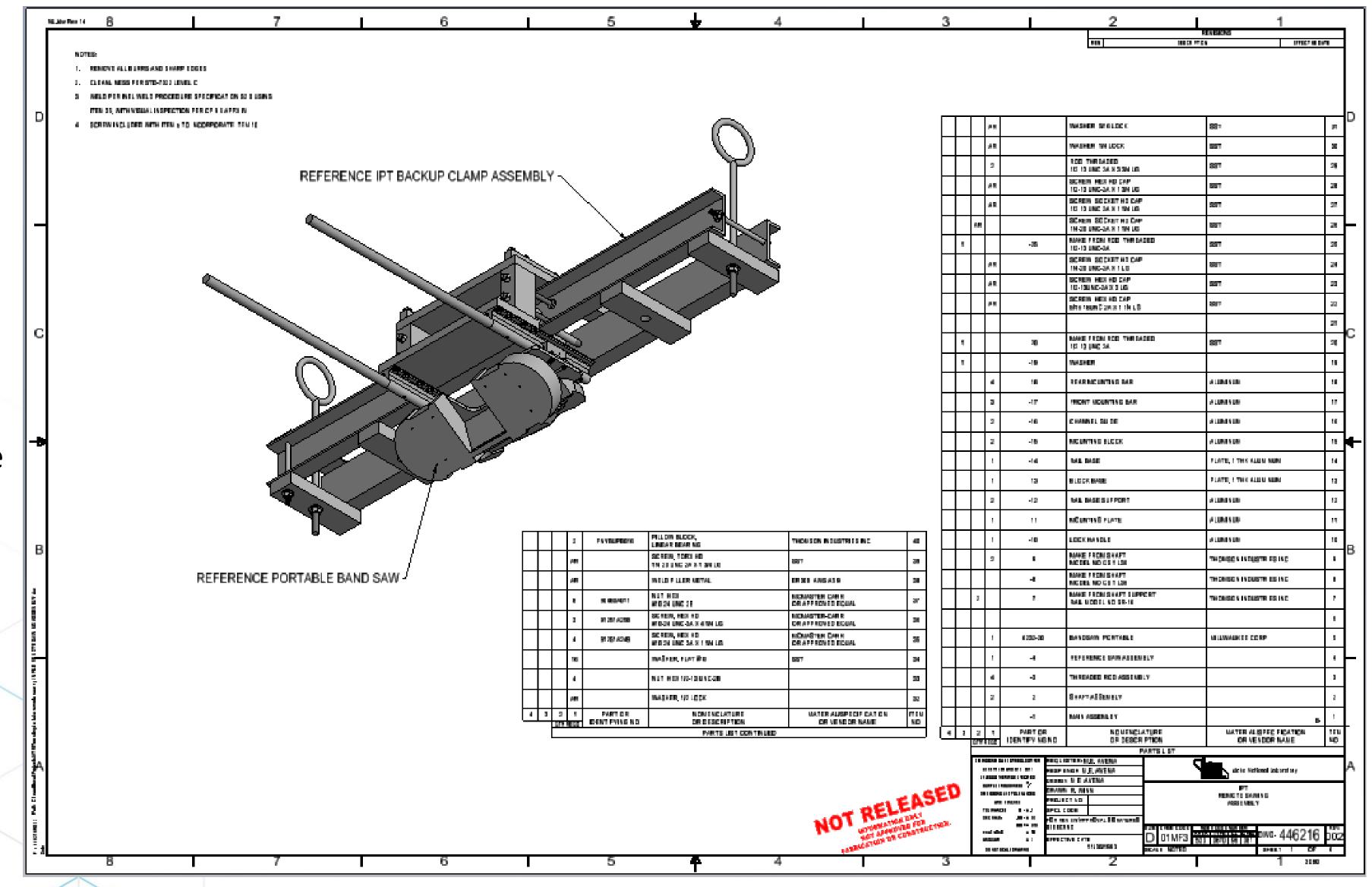
What was used?

I used a 3D design software package called Autodesk Inventor Professional, which enables a person to create each part, assemble them all together and create a professional drawing for a more accurate model of the final fabrication of this remote sawing assembly.

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This is one of the original raster drawings that I redrew as a reference part for this sawing assembly. It's a backup clamp and is a harder drawing to read with some details left out. Now there is an accurate drawing of this model that can paint a clearer model of where this assembly will be located and connected. This will also make it easier to make revisions and improvements to this part over time.

This is a sawing assembly used cut the Inpile tubes during CIC in the reactor. It was previously made with several raster drawings that needed to be updated and redrawn. Now we can see this assembly with more detail and precision to help mitigate mistakes. Some of these parts can now be used in other assemblies as reference parts to aid in designing future parts.



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ADVANCED TEST REACTOR

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